Claim 43, line 3, after "pCR1" change the comma "," to
--and--, and delete "and pSC1".

Claim 44, line 4, delete "at least".

Claim 45, line 4, delete "at least";

line 9 of the sequence, change "Ais" to --
His--.

Please add the following new Claims 49 to 59.

--49.   A recombinant expression plasmid for producing
human fibroblast β_1 interferon, comprising a DNA sequence
coding for human fibroblast β_1 interferon, whereby
expression of human fibroblast β_1 interferon by a host is
enabled.

50.   A recombinant expression plasmid for producing
human fibroblast β_1 interferon polypeptide in a host,
comprising a DNA sequence coding for human fibroblast β_1
interferon operably linked therein for expression.

51.   An Escherichia coli host cell capable of expressing human
fibroblast β_1 interferon polypeptide, transformed with an
expression plasmid of claim 49.

52.   A method of producing human fibroblast β_1
interferon polypeptide, comprising expressing the
expression plasmid of claim 49 in an Escherichia coli a host cell.

53.   A human fibroblast β_1 interferon polypeptide
produced by the process of claim 52.

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54. Recombinant human Fibroblast β_1 interferon.

55. A plasmid of claim 49, wherein said DNA has the

sequence:

```
ATG ACC AAC AAG TGT CTC CTC CAA ATT GCT CTC CTG TTG TGC TTC TCC
TAC TGG TTG TTC ACA GAG GAG GTT TAA CGA GAG GAC AAC ACG AAG AGG

ACT ACA GCT CTT TCC ATG AGC TAC AAC TTG CTT GGA TTC CTA CAA AGA
TGA TGT CGA GAA AGG TAC TCG ATG TTG AAC GAA CCT AAG CAT GTT TCT
                                                       G
AGC AGC AAT TTT CAG TGT CAG AAG CTC CTG TGG CAA TTG AAT GGG AGG
TCG TCG TTA AAA GTC ACA GTC TTC GAG GAC ACC GTT AAC TTA CCC TCC

CTT GAA TAT TGC CTC AAG GAC AGG ATG AAC TTT GAC ATC CCT GAG GAG
GAA CTT ATA ACG GAG TTC CTG TCC TAC TTG AAA CTG TAG GGA CTC CTC

ATT AAG CAG CTG CAG CAG TTC CAG AAG GAG GAC GCC GCA TTG ACC ATC
TAA TTC GTC GAC GTC GTC AAG GTC TTC CTC CTG CGG CGT AAC TGG TAG

TAT GAG ATG CTC CAG AAC ATC TTT GCT ATT TTC AGA CAA GAT TCA TCT
ATA CTC TAC GAG GTC TTG TAG AAA CGA TAA AAG TCT GTT CTA AGT AGA

AGC ACT GGC TGG AAT GAG ACT ATT GTT GAG AAC CTC CTG GCT AAT GTC
TCG TGA CCG ACC TTA CTC TGA TAA CAA CTC TTG GAG GAC CGA TTA CAG

TAT CAT CAG ATA AAC CAT CTG AAG ACA GTC CTG GAA GAA AAA CTG GAG
ATA GTA GTC TAT TTG GTA GAC TTC TGT CAG GAC CTT CTT TTT GAC CTC

AAA GAA GAT TTC ACC AGG GGA AAA CTC ATG AGC AGT CTG CAC CTG AAA
TTT CTT CTA AAG TGG TCC CCT TTT GAG TAC TCG TCA GAC GTG GAC TTT

AGA TAT TAT GGG AGG ATT CTG CAT TAC CTG AAG GCC AAG GAG TAC AGT
TCT ATA ATA CCC TCC TAA GAC GTA ATG GAC TTC CGG TTC CTC ATG TCA

CAC TGT GCC TGG ACC ATA GTC AGA GTG GAA ATC CTA AGG AAC TTT TAC
GTG ACA CGG ACC TGG TAT CAG TCT CAC CTT TAG GAT TCC TTG AAA ATG

TTC ATT AAC AGA CTT ACA GGT TAC CTC CGA AAC
AAG TAA TTG TCT GAA TGT CCA ATG GAG GCT TTG.
```

56. A host cell of claim 51, wherein said DNA has the

sequence:

```
ATG ACC AAC AAG TGT CTC CTC CAA ATT GCT CTC CTG TTG TGC TTC TCC
TAC TGG TTG TTC ACA GAG GAG GTT TAA CGA GAG GAC AAC ACG AAG AGG
```

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ACT ACA GCT CTT TCC ATG AGC TAC AAC TTG CTT GGA TTC CTA CAA AGA
TGA TGT CGA GAA AGG TAC TCG ATG TTG AAC GAA CCT AAG GAT GTT TCT

AGC AGC AAT TTT CAG TGT CAG AAG CTC CTG TGG CAA TTG AAT GGG AGG
TCG TCG TTA AAA GTC ACA GTC TTC GAG GAC ACC GTT AAC TTA CCC TCC

CTT GAA TAT TGC CTC AAG GAC AGG ATG AAC TTT GAC ATC CCT GAG GAG
GAA CTT ATA ACG GAG TTC CTG TCC TAC TTG AAA CTG TAG GGA CTC CTC

ATT AAG CAG CTG CAG CAG TTC CAG AAG GAG GAC GCC GCA TTG ACC ATC
TAA TTC GTC GAC GTC GTC AAG GTC TTC CTC CTG CGG CGT AAC TGG TAG

TAT GAG ATG CTC CAG AAC ATC TTT GCT ATT TTC AGA CAA GAT TCA TCT
ATA CTC TAC GAG GTC TTG TAG AAA CGA TAA AAG TCT GTT CTA AGT AGA

AGC ACT GGC TGG AAT GAG ACT ATT GTT GAG AAC CTC CTG GCT AAT GTC
TCG TGA CCG ACC TTA CTC TGA TAA CAA CTC TTG GAG GAC CGA TTA CAG

TAT CAT CAG ATA AAC CAT CTG AAG ACA GTC CTG GAA GAA AAA CTG GAG
ATA GTA GTC TAT TTG GTA GAC TTC TGT CAG GAC CTT CTT TTT GAC CTC

AAA GAA GAT TTC ACC AGG GGA AAA CTC ATG AGC AGT CTG CAC CTG AAA
TTT CTT CTA AAG TGG TCC CCT TTT GAG TAC TCG TCA GAC GTG GAC TTT

AGA TAT TAT GGG AGG ATT CTG CAT TAC CTG AAG GCC AAG GAG TAC AGT
TCT ATA ATA CCC TCC TAA GAC GTA ATG GAC TTC CGG TTC CTC ATG TCA

CAC TGT GCC TGG ACC ATA GTC AGA GTG GAA ATC CTA AGG AAC TTT TAC
GTG ACA CGG ACC TGG TAT CAG TCT CAC CTT TAG GAT TCC TTG AAA ATG

TTC ATT AAC AGA CTT ACA GGT TAC CTC CGA AAC
AAG TAA TTG TCT GAA TGT CCA ATG GAG GCT TTG.

57. A method of claim 52, wherein said DNA has the

sequence:

ATG ACC AAC AAG TGT CTC CTC CAA ATT GCT CTC CTG TTG TGC TTC TCC
TAC TGG TTG TTC ACA GAG GAG GTT TAA CGA GAG GAC AAC ACG AAG AGG

ACT ACA GCT CTT TCC ATG AGC TAC AAC TTG CTT GGA TTC CTA CAA AGA
TGA TGT CGA GAA AGG TAC TCG ATG TTG AAC GAA CCT AAG GAT GTT TCT

AGC AGC AAT TTT CAG TGT CAG AAG CTC CTG TGG CAA TTG AAT GGG AGG
TCG TCG TTA AAA GTC ACA GTC TTC GAG GAC ACC GTT AAC TTA CCC TCC

CTT GAA TAT TGC CTC AAG GAC AGG ATG AAC TTT GAC ATC CCT GAG GAG
GAA CTT ATA ACG GAG TTC CTG TCC TAC TTG AAA CTG TAG GGA CTC CTC

ATT AAG CAG CTG CAG CAG TTC CAG AAG GAG GAC GCC GCA TTG ACC ATC

```
TAA TTC GTC GAC GTC GTC AAG GTC TTC CTC CTG CGG CGT AAC TGG TAG

TAT GAG ATG CTC CAG AAC ATC TTT GCT ATT TTC AGA CAA GAT TCA TCT
ATA CTC TAC GAG GTC TTG TAG AAA CGA TAA AAG TCT GTT CTA AGT AGA

AGC ACT GGC TGG AAT GAG ACT ATT GTT GAG AAC CTC CTG GCT AAT GTC
TCG TGA CCG ACC TTA CTC TGA TAA CAA CTC TTG GAG GAC CGA TTA CAG

TAT CAT CAG ATA AAC CAT CTG AAG ACA GTC CTG GAA GAA AAA CTG GAG
ATA GTA GTC TAT TTG GTA GAC TTC TGT CAG GAC CTT CTT TTT GAC CTC

AAA GAA GAT TTC ACC AGG GGA AAA CTC ATG AGC AGT CTG CAC CTG AAA
TTT CTT CTA AAG TGG TCC CCT TTT GAG TAC TCG TCA GAC GTG GAC TTT

AGA TAT TAT GGG AGG ATT CTG CAT TAC CTG AAG GCC AAG GAG TAC AGT
TCT ATA ATA CCC TCC TAA GAC GTA ATG GAC TTC CGG TTC CTC ATG TCA

CAC TGT GCC TGG ACC ATA GTC AGA GTG GAA ATC CTA AGG AAC TTT TAC
GTG ACA CGG ACC TGG TAT CAG TCT CAC CTT TAG GAT TCC TTG AAA ATG

TTC ATT AAC AGA CTT ACA GGT TAC CTC CGA AAC
AAG TAA TTG TCT GAA TGT CCA ATG GAG GCT TTG.
```

58. Recombinant human fibroblast β_1 interferon having

the amino acid sequence:

Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln

Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu

Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln

Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln

Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn

Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn

His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr

Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg

Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr

Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu

Thr Gly Tyr Leu Arg Asn.

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59. Recombinant human fibroblast β_1 interferon having the amino acid sequence:

Met Thr Asn Lys Cys Leu Leu Gln Ile Ala Leu Leu Leu Cys Phe Ser

Thr Thr Ala Leu Ser Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg

Ser Ser Asn Phe Gln Cys Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg

Leu Glu Tyr Cys Leu Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu

Ile Lys Gln Leu Gln Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile

Tyr Glu Met Leu Gln Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser

Ser Thr Gly Trp Asn Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val

Tyr His Gln Ile Asn His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu

Lys Glu Asp Phe Thr Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys

Arg Tyr Tyr Gly Arg Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser

His Cys Ala Trp Thr Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr

Phe Ile Asn Arg Leu Thr Gly Tyr Leu Arg Asn. --

REMARKS

The specification has been amended to conform to the amendments made in Applicants' parent application Serial No. 06/201,359. The claims have also been amended to define Applicants' invention with the particularity required by statute and to set forth the invention in such manner as to clearly demonstrate its patentability. Additionally, new claims 49-59 are submitted herewith to